

3290.007US1

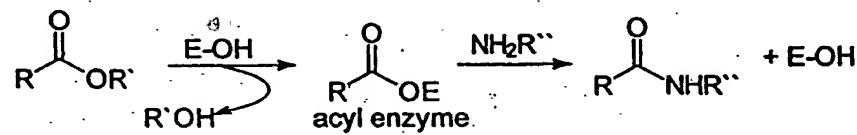
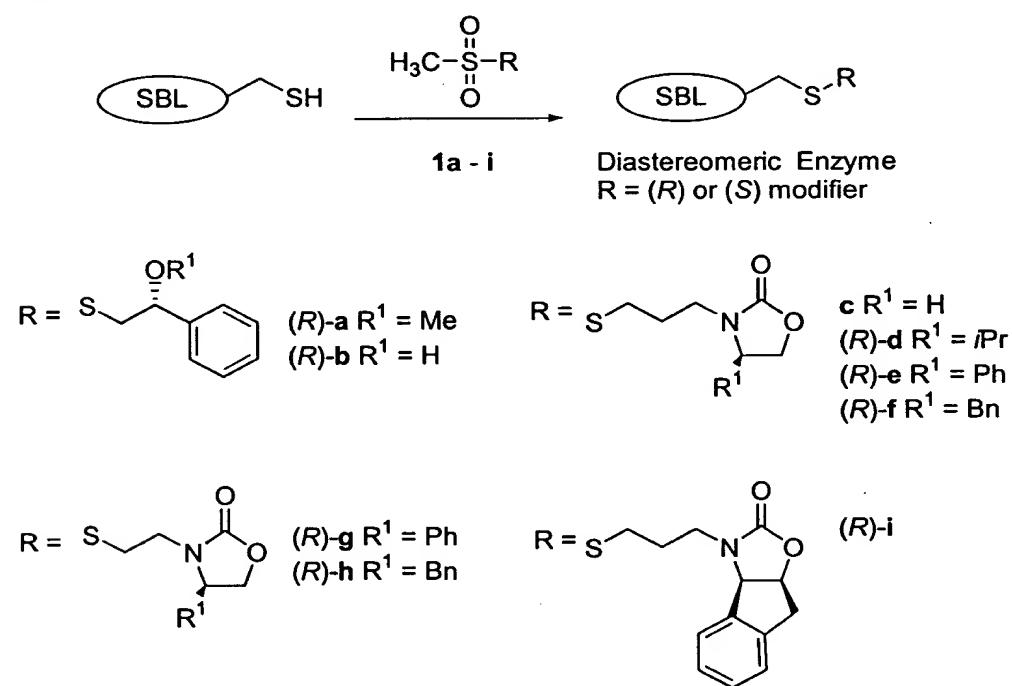


Figure 1

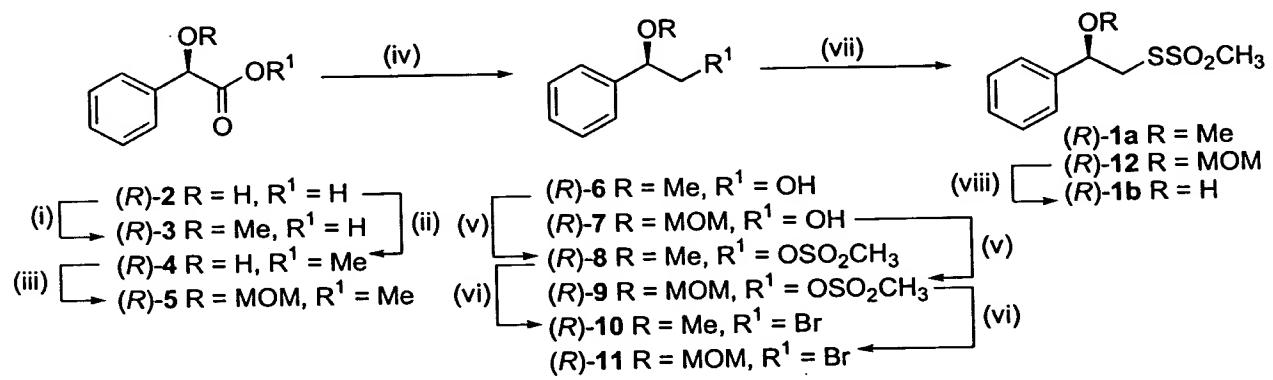
Fig. 1

Scheme 1. Modification of SBL mutants with Chiral Auxiliaries.



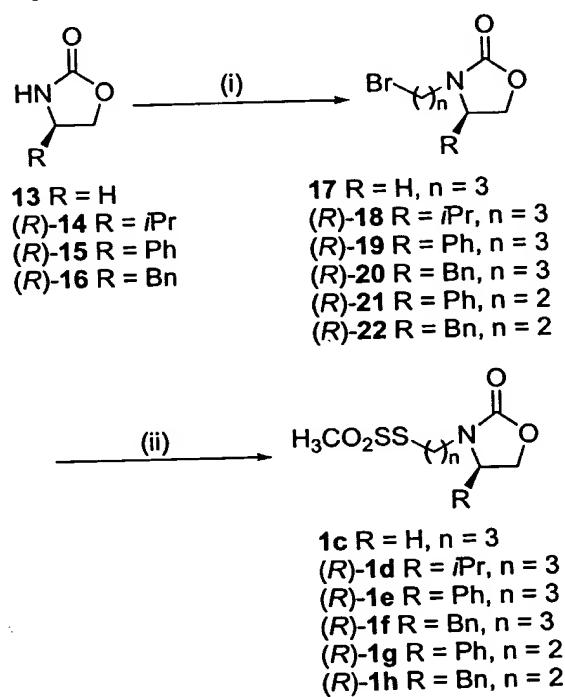
The corresponding (S) MTS ligands follow the same code scheme (i.e. (S)-a, (S)-b, (S)-d, (S)-e, (S)-f, (S)-g, (S)-h, (S)-i).

Fig. 2

Scheme 2. Synthesis of Mandelate-based Ligands

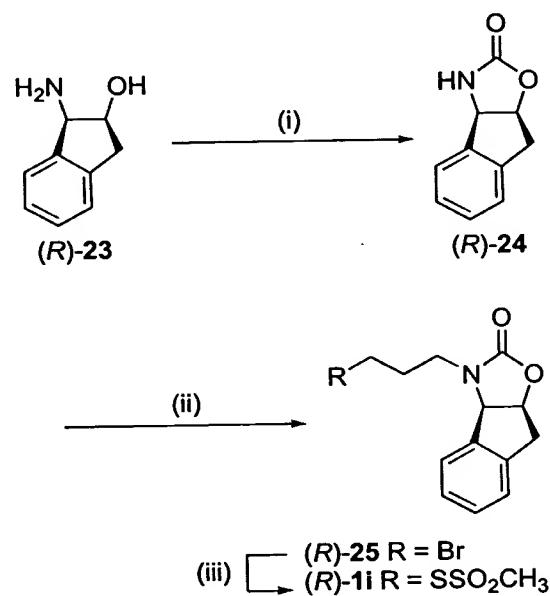
Reagents: (i) Me_2SO_4 , NaOH , H_2O , 37%; (ii) MeOH , H^+ ; (iii) MOM-Cl , CH_2Cl_2 , Et_3N (90% 2 steps); (iv) For (R)-3: BH_3 , THF , 82%; For (R)-5: LiBH_4 , THF , 97%; (v) MeSO_2Cl , CH_2Cl_2 , Et_3N ; For (R)-8: 100%; (vi) LiBr , acetone; For (R)-10: 84%; For (R)-11: 78% 2 steps; (vii) $\text{NaSSO}_2\text{CH}_3$, DMF ; For (R)-12: 61%; (viii) TFA , H_2O , 82%.

Fig. 3

Scheme 3. Synthesis of Oxazolidinone-based Ligands

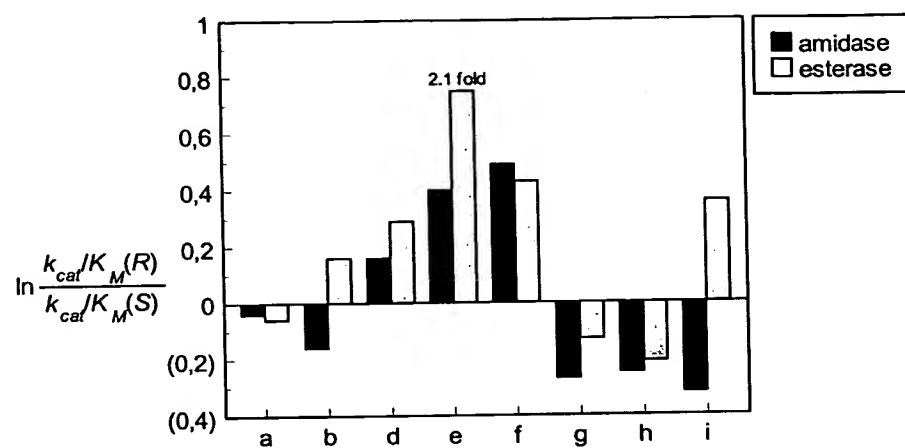
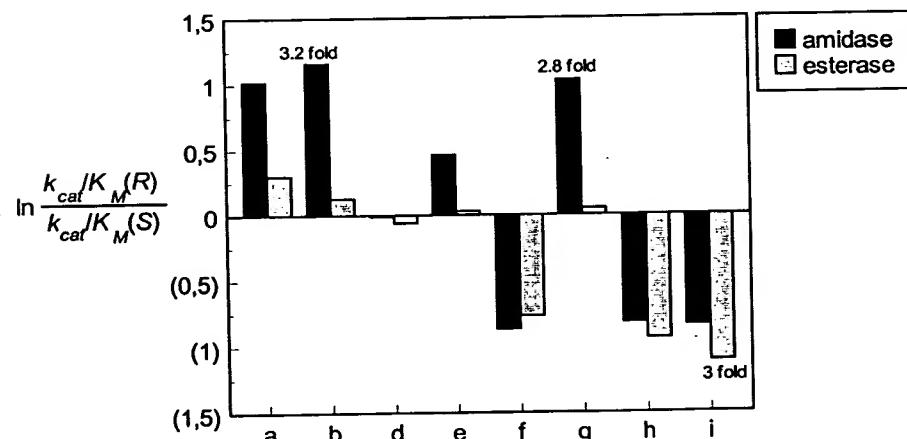
Reagents: (i) KOH, DMSO, Br $(\text{CH}_2)_n\text{Br}$;
(ii) NaSSO₂CH₃, DMF.

Fig. 4

Scheme 4. Synthesis of Indanol-based Ligands

Reagents: (i) triphosgene, CH₂Cl₂, Et₃N, 100%;
(ii) KOH, DMSO, Br(CH₂)₃Br; (iii) NaSSO₂CH₃,
DMF.

Fig. 5

**Fig. 6A****Fig. 6B**

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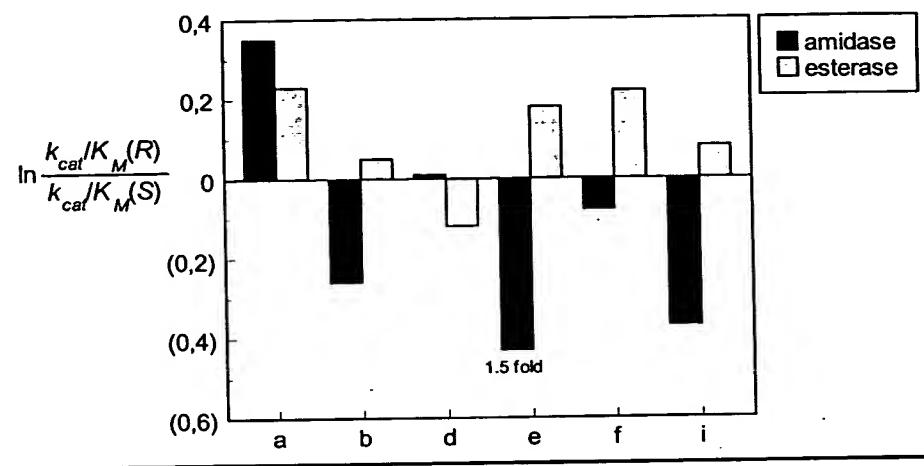
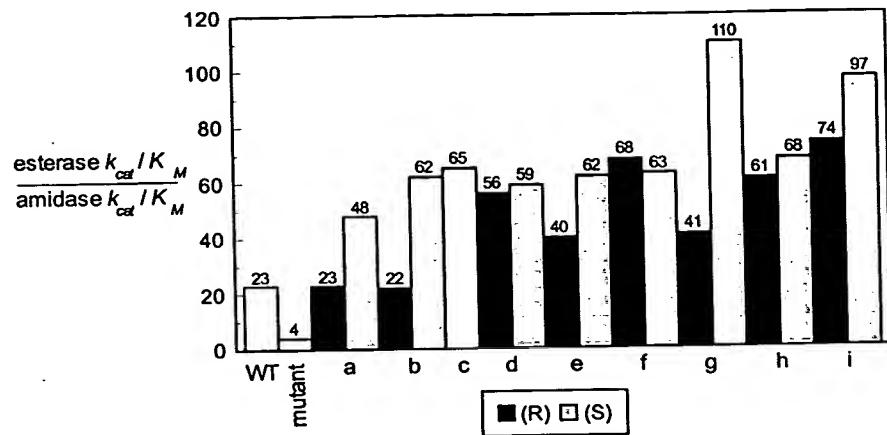
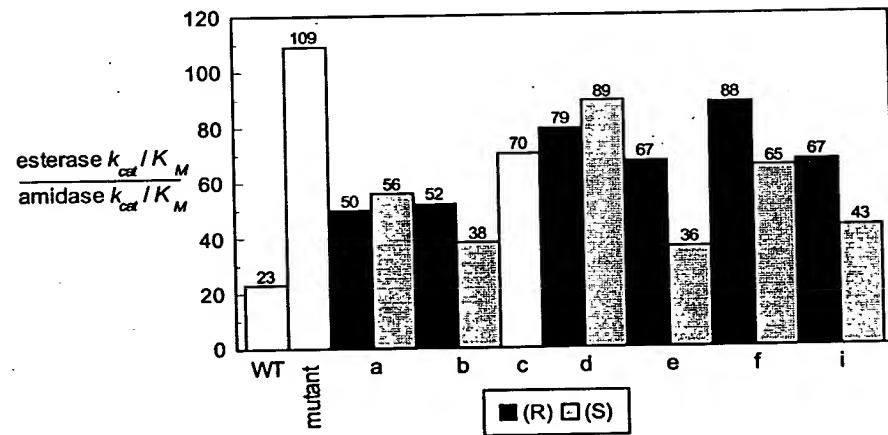


Fig. 6C

***Fig. 7A******Fig. 7B***

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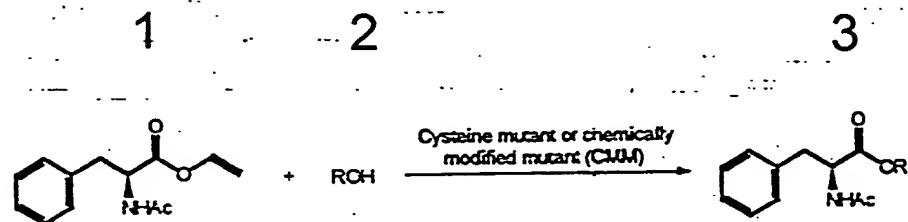


Fig. 8